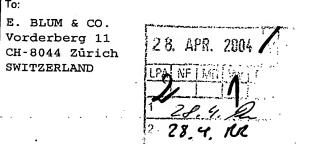
PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY



PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

2 28.4. NR	Date of mailing (day/month/year) 28/04/2004
Applicant's or agent's file reference	
08020PC	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/IB 03/02541	(day/month/year) 06/06/2003
Applicant	
ZEOCHEM AG	Z\$06

1. X	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.						
1	Filing of amendments and statement under Article 10.						
	The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):						
i							
	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.						
l	Where? Directly to the International Bureau of WIPO						
	34, chemin des Colombettes						
	1211 Geneva 20. Switzerland						
	Fascimile No.: (41-22) 740.14.35						
	For more detailed instructions, see the notes on the accompanying sheet.						
2.	The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.						
3.	With regard to the protect against payment of (on) additional (on).						
	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
•	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.						
٠	no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.						
4. Furth	er action(s): The applicant is reminded of the following:						
prio	ly after 18 months from the priority date, the international application will be published by the International Bureau. e applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the rity claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the upletion of the technical preparations for international publication.						
	n 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant nes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).						
Within befo	n 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase are all designated Offices which have not been elected in the demand or in a later election within 19 months from the rity date or could not be elected because they are not bound by Chapter II.						

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Toñi Muñoz-Manneken

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled:
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Adicio 19/1))

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 08020PC	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below
International application No.	International filing day (1)
PCT/IB 03/02541	(Earliest) Priority Date (day/month/year)
Applicant	
ZEOCHEM AG	
This International Search Report has be according to Article 18. A copy is being t	en prepared by this International Searching Authority and is transmitted to the applicant transmitted to the International Bureau.
This International Search Report consist	
Basis of the report	The state of the s
 With regard to the language, the language in which it was filed, un 	international search was carried out on the basis of the international application in the less otherwise indicated under this item.
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of the international application furnished to this
filed together with the inter- furnished subsequently to furnished subsequently to the statement that the sub- international application as the statement that the infor- furnished	ad/or amino acid sequence disclosed in the international application, the international search e sequence listing: anal application in written form. anational application in computer readable form. anational application in computer readable form. this Authority in written form. this Authority in computer readble form. sequently furnished written sequence listing does not go beyond the disclosure in the affiled has been furnished. The mation recorded in computer readable form is identical to the written sequence listing has been
. Certain claims were found	d unsearchable (See Box I).
. X Unity of invention is lacki	ng (see Box II).
With regard to the title,	•
X the text is approved as subr	nitted by the applicant.
the text has been establishe	ed by this Authority to read as follows:
With regard to the abstract, X the text is approved as submethin the text has been established within one month from the da	d, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may
ne figure of the drawings to be published	ed with the abstract is Figure No.
as suggested by the applicant	t.
because the applicant failed to	o suggest a figure. \overline{X} None of the figures.
I Decause this firm I	racterizes the invention.

	certain claims were found unsearchable (Continue)
This leter with	certain claims were found unsearchable (Continuation of item 1 of first sheet)
I his International Search Report ha	as not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1 D a.	and and the first the following reasons:
Claims Nos.: because they relate to sub-	icot mana
- y 101410 to 3db	ject matter not required to be searched by this Authority, namely:
2. Claims Nos.:	
because they rolate to	S of the International Application and its
an extent that no meaningfu	s of the International Application that do not comply with the prescribed requirements to such ul International Search can be carried out, specifically:
•	
. 🗀	
3. Claims Nos.: because they are dependent	t glaine - I
7 and dependent	t claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where we	
	ity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority	found multiple inventions in this international application, as follows:
•	application, as follows:
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12,13,14-16

A process to produce a formed zeolite for adsorption purposes with improved adsorption and desorption properties. A zeolitic adsorption compound obtainable according to this process.

A process to remove by adsorption one or more low molecular weight organic sulfur compounds from a gaseous or liquid stream, wherein the feed stream is passed through a bed of formed zeolitic molecular sieve.

2. claims: 17-25

A desorption process for the desorption of organic sulfur compounds from a formed faujasite zeolite, in particular formed zeolite 13% or formed zeolite LS%, or a mixture of formed zeolite 13% and formed zeolite LS%, wherein the desorption is done by a heating profile allowing the organic sulfur compounds to reach their equilibrium adsorption capacity at each temperature.

International Application No PCT/IB 03/02541

CLASSIFICATION OF SUBJECT MATTER PC 7 B01J20/18 B01[B01D53/04 B01J20/34 B01D15/00 C10G25/05 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B01J B01D C10G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α EP 0 511 885 A (CECA SA) 4 November 1992 (1992-11-04) 1,3,4,8, 13-16 page 2, line 48. page 2, line 33 - line 53 WO 00/71249 A (ZEOCHEM) 1-4.30 November 2000 (2000-11-30) 13-16 06 page 17, line 14 - line 16 page 16, line 25 - page 17, line 2 page 16, line 3 - line 24 US 6 096 194 A (TSYBULEVSKIY ALBERT M Α 1-7, AL) 1 August 2000 (2000-08-01) 13-15 column 6, line 7 - line 16 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 13 April 2004 28 04 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Hilgenga, K

	ation) DOGUMENTS CONSIDERED TO BE RELEVANT	T/IB 03/02541
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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/IB 0	3/02541
Category °	Citation of document, with indication, where appropriate, of the relevant passages		
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Information on patent family members

					PC1/11	3 03/02541
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